

CLL Series

* 客户可指定接口类型

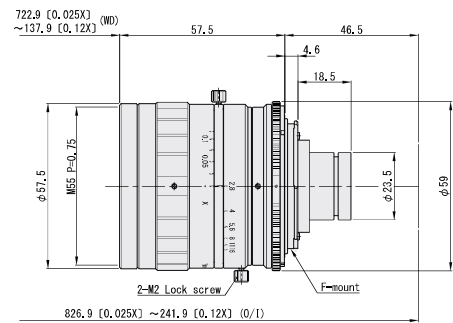


有焦点距离f18mm~f185的 9个机种。
可选择各种倍率，2种变倍线扫产品。
高周边光亮和低失真设计。

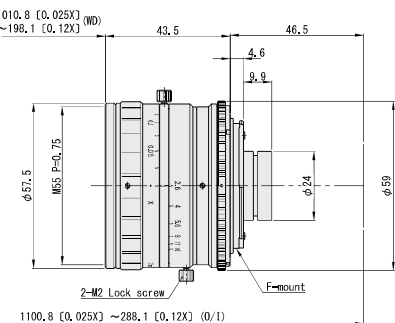
CLL (F) WD・倍率对照表

	∞	0.05x	0.1x	0.15x	0.2x	0.25x	0.3x	0.35x	0.5x	1x
CLL-1828F	722.9mm (0.025x)	↔ 137.9mm (0.12x)								
CLL-2526F	1010.8mm (0.025x)	↔ 198.1mm (0.12x)								
CLL-3528F		706.9mm (0.05x)	↔ 112.8mm (0.3x)							
CLL-3528MF	1795.2mm (0.02x)	↔ 289.0mm (0.12x)								
CLL-5018F	1123.7mm (0.05x)	↔ 388.6mm (0.14x)								
CLL-5028F		1025.0mm (0.05x)	↔ 181.4mm (0.3x)							
CLL-8540F			864.2mm (0.1x)	↔ 285.0mm (0.35x)						
CLL-10028F		2050.7mm (0.05x)	↔ 409mm (0.3x)							
CLL-8556F			1951.7mm (0.108x)	↔ 1404.4mm (0.139x)						

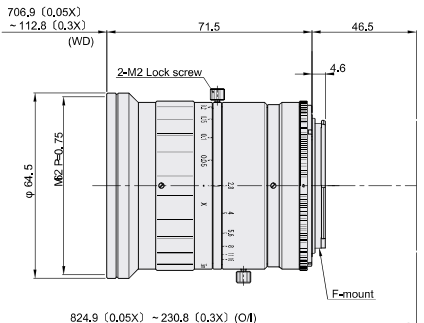
CLL-1828F



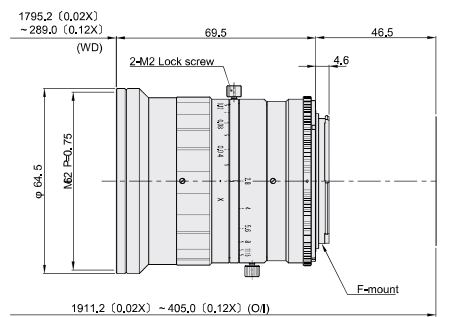
CLL-2526F



CLL-3528F

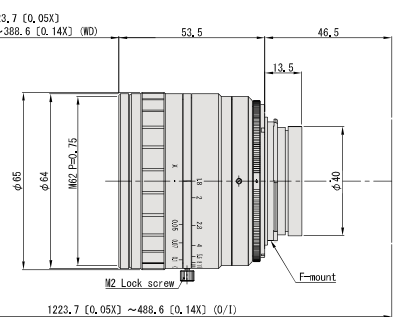


CLL-3528MF

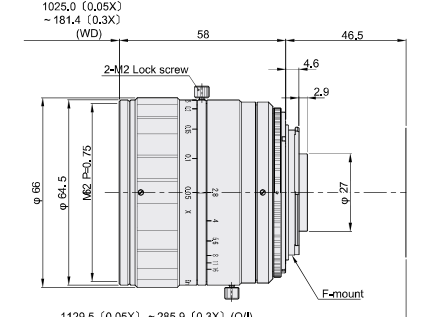


CLL-5018F

浮动系统



CLL-5028F

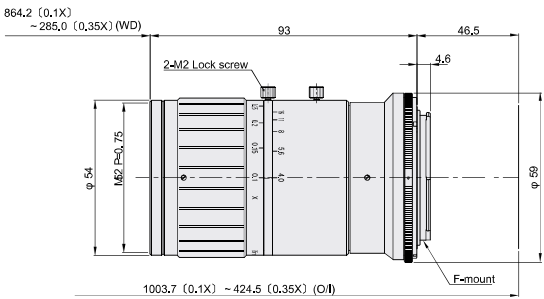


规格	CLL-1828F				CLL-2526F				CLL-3528F			
焦点距离	18 mm				25 mm				35 mm			
可变倍率范围	(∞) 0.025x ~ 0.12x				(∞) 0.025x ~ 0.12x				(∞) 0.05x ~ 0.3x			
光学倍率	0.025x	0.05x	0.1x	0.12x	0.025x	0.05x	0.1x	0.12x	0.05x	0.1x	0.2x	0.3x
WD	722.9 mm	352.8 mm	168.4 mm	137.9 mm	1010.8 mm	496.6 mm	240.5 mm	198.1 mm	706.9 mm	346.8 mm	169.5 mm	112.8 mm
物像间距离O/I	826.9 mm	456.8 mm	272.4 mm	241.9 mm	1100.8 mm	586.6 mm	330.5 mm	288.1 mm	824.9 mm	464.8 mm	287.5 mm	230.8 mm
FNO	F 2.8 ~ 16				F 2.6 ~ 16				F 2.8 ~ 16			
实效F *光圈全开	2.9	3.0	3.1	3.2	2.7	2.8	2.9	2.9	2.8	3.0	3.3	3.5
景深 允许模糊值φ0.04mm	371.2 mm	96 mm	24.8 mm	17.8 mm	345.6 mm	89.6 mm	23.2 mm	16.1 mm	99.6 mm	24.0 mm	6.6 mm	3.1 mm
光学失真	-2.14 %				-1.64 %				-0.43 %			
像圈	φ29 mm				φ29 mm				φ45 mm			
滤镜口径	M 55 P = 0.75				M 55 P = 0.75				M 62 P = 0.75			
重量	330 g				245 g				350 g			

规格	CLL-3528MF				CLL-5018F				CLL-5028F			
焦点距离	35 mm				50 mm				50 mm			
可变倍率范围	(∞) 0.02x ~ 0.12x				(∞) 0.05x ~ 0.14x				0.05x ~ 0.3x			
光学倍率	0.02x	0.04x	0.08x	0.12x	0.05x	0.07x	0.1x	0.14x	0.05x	0.1x	0.2x	0.3x
WD	1795.2 mm	890.0 mm	438.5 mm	289.0 mm	1123.7 mm	752.4 mm	533.6 mm	388.6 mm	1025.0 mm	513.7 mm	261.9 mm	181.4 mm
物像间距离O/I	1911.2 mm	1006.0 mm	554.5 mm	405.0 mm	1223.7 mm	852.4 mm	633.6 mm	488.6 mm	1129.5 mm	618.2 mm	366.4 mm	285.9 mm
FNO	F 2.8 ~ 16				F 1.8 ~ 16				F 2.8 ~ 16			
实效F *光圈全开	2.9	2.9	3.0	3.2	2.0	2.0	2.1	2.2	3.1	3.2	3.5	3.8
景深 允许模糊值φ0.04mm	580.0 mm	145.0 mm	37.5 mm	17.8 mm	64.0 mm	32.7 mm	16.8 mm	9.0 mm	99.2 mm	25.6 mm	7.0 mm	3.4 mm
光学失真	-0.21 %				-2.37 %				-0.02 %			
像圈	φ45 mm				φ45 mm				φ45 mm			
滤镜口径	M 62 P = 0.75				M 62 P = 0.75				M 62 P = 0.75			
重量	340 g				340 g				290 g			

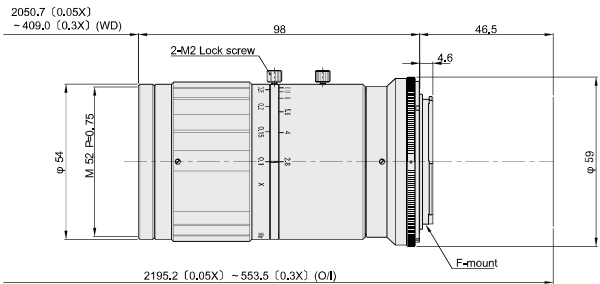
0.159 × 1596.9

CLL-8540F

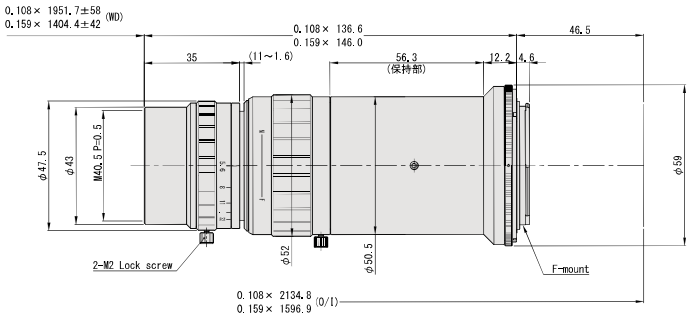


请参阅本书关于线扫远心镜头的介绍

CLL-10028F



CLL-8556F



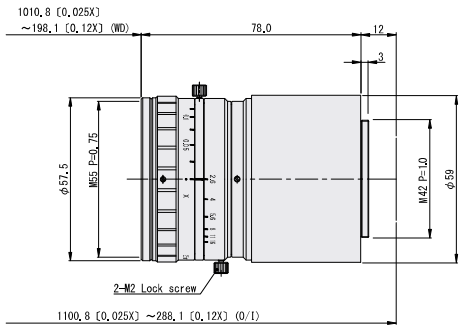
规格	CLL-8540F					CLL-10028F			CLL-8556F	
焦点距离	85 mm					100 mm			185 mm	
可变倍率范围	0.1x ~ 0.35x					0.05x ~ 0.3x			0.108x ~ 0.159x	
光学倍率	0.1x	0.2x	0.3x	0.35x	0.05x	0.1x	0.2x	0.3x	0.108x	0.159x
WD	864.2 mm	452.5 mm	320.8 mm	285.0 mm	2050.7 mm	1055.7 mm	565.7 mm	409.0 mm	1951.7 mm ± 58	1404.4 mm ± 42
物像间距离O/I	1003.7 mm	592.0 mm	460.3 mm	424.5 mm	2195.2 mm	1200.2 mm	710.2 mm	553.5 mm	2134.8 mm	1596.9 mm
FNO	F 4 ~ 16					F 2.8 ~ 16			F 5.6 ~ 32	
实效F *光圈全开	4.4	4.8	5.2	5.4	3.2	3.4	3.7	4.0	7.1	7.4
景深 允许模糊度@0.04mm	35.2 mm	9.6 mm	4.6 mm	3.5 mm	102.4 mm	27.2 mm	7.4 mm	3.6 mm	48.5 mm	23.4 mm
光学失真	0.00 %					0.10 %			0.48 %	
像圈	φ50 mm					φ45 mm			φ45 mm	
滤镜口径	M 52 P = 0.75					M 52 P = 0.75			M 40.5 P = 0.5	
重量	350 g					360 g			400 g	

■ M42, M58 接口改造例

接口类型可变更，请联络销售代表获取详情。

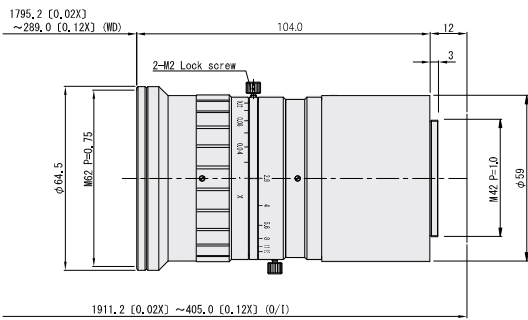
CLL-2526M42

M42 P=1.0 (FB12)



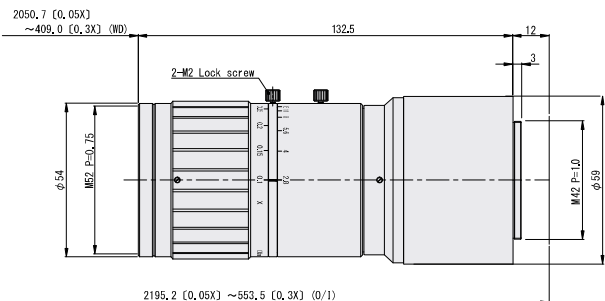
CLL-3528MM42

M42 P=1.0 (FB12)



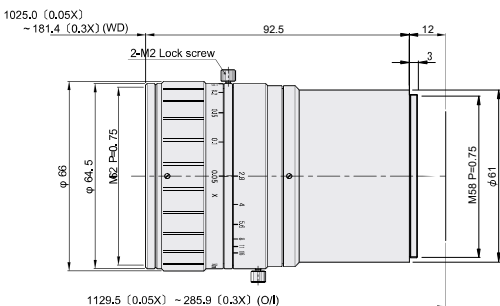
CLL-10028M42

M42 P=1.0 (FB12)



CLL-5028M58

M58 P=0.75 (FB12)



CLL-V Series

- 通过采用V口，可对应各种各样的倍率。
- 注重周边光亮与低失真。
- 实现周边光亮差递减、高对比度。
- 机器视觉的设计，抗震性能强的构造



产品阵容

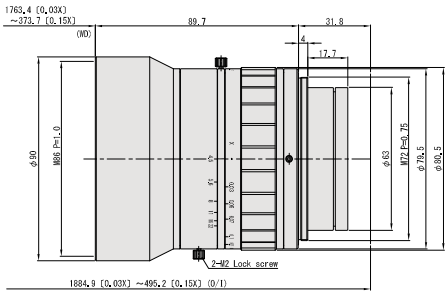
	成像圈	21φ	28.6φ	35φ	45φ	65φ	90φ
线阵相机芯片尺寸	2048bit×10μ=20.48mm	●	●	●	●	●	●
	2048bit×14μ=28.67mm		●	●	●	●	●
	7400bit×4.7μ=34.78mm		●	●	●	●	●
	4096bit×10μ=40.96mm				●	●	●
	6144bit×7μ=43.00mm				●	●	●
	8192bit×7μ=57.34mm					●	●
	12288bit×5μ=61.44mm					●	●
	16384bit×5μ=81.92mm						●
	12288bit×7μ=86.01mm						●
面阵相机芯片尺寸	2048 × 2048 (7.4μ) = 15.15×15.15 (对角21.43mm)		●	●	●	●	●
	4096 × 3072(6μ) = 24.57×18.43 (对角30.72mm)			●	●	●	●
	4008×2672(19μ×9μ)= 76.15×24.04 (对角79.86mm)						●

*芯片尺寸根据厂商的不同多少有差异

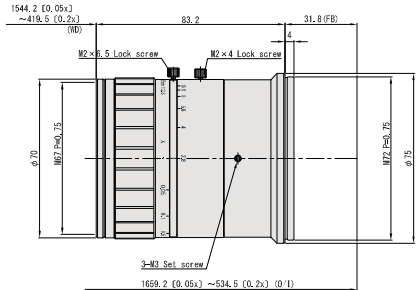
WD・倍率对照表

	0.03x	0.05x	0.08x	0.1x	0.15x	0.2x	0.25x
CLL-5045-M72	1763.4mm (0.03x)				373.7mm (0.15x)		
CLL-7528-M72		1,544.2mm (0.05x)				419.5mm (0.2x)	
CLL-8528L-M72		1,722.9mm (0.05x)					366mm (0.25x)
CLL-8528-M72		1,724mm (0.05x)				462mm (0.2x)	

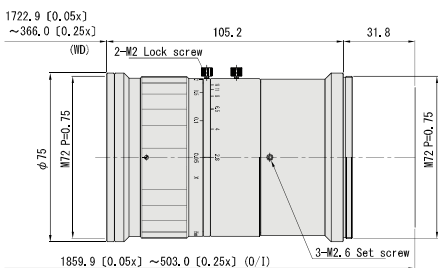
CLL-5045-M72



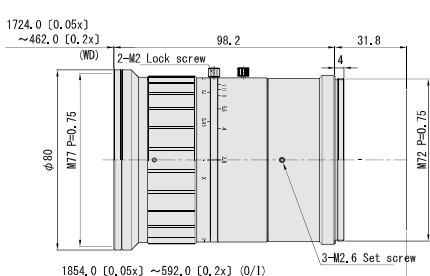
CLL-7528-M72



CLL-8528-M72



CLL-8528L-M72



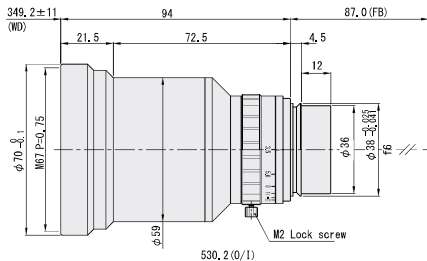
规格	CLL-5045-M72			CLL-7528-M72				CLL-8528-M72			CLL-8528L-M72			
焦点距离	52.5 mm			75 mm				85 mm			85 mm			
光学倍率	0.03x	0.10x	0.15x	0.05x	0.1x	0.15x	0.2x	0.05x	0.15x	0.25x	0.05x	0.1x	0.15x	0.2x
WD	1763.4 mm	545.2 mm	373.7 mm	1544.2 mm	790.6 mm	541.9 mm	419.5 mm	1722.9 mm	598.0 mm	366.0 mm	1724.0 mm	878.4 mm	599.4 mm	462.0 mm
物像间距离O/I	1884.9 mm	666.7 mm	495.2 mm	1659.2 mm	905.6 mm	656.9 mm	534.5 mm	1859.9 mm	735.0 mm	503.0 mm	1854.0 mm	1008.4 mm	729.4 mm	592.0 mm
FNO	F 4.5 ~ 22			F 2.8 ~ 16				F 2.8 ~ 16			F 2.8 ~ 16			
实效F *光圈全开	4.7	5.0	5.3	3.0	3.1	3.3	3.4	3.0	3.2	3.5	2.9	3.1	3.2	3.4
NA	—			0.083	0.016	0.023	0.029	—			—			
景深 允许错误值φ0.04mm	—			96.0 mm	24.8 mm	11.7 mm	6.8 mm	96.0 mm	11.4 mm	4.5 mm	92.8 mm	24.8 mm	11.4 mm	6.8 mm
光学失真	0.00 %	0.15 %	0.22 %	-0.66 %				-0.06 %			0.02 %			
	(Y=37.5)			Y=36.5)				(Y=31)			(Y=31)			
周边亮度	48 % (Y=37.5)			45 % (Y=36.5)				—			—			
像圈	φ75 mm			φ73 mm				φ62 mm			φ62 mm			
滤镜口径	M 86 P = 1.0			M 67 P = 0.75				M 72 P = 0.75			M 77 P = 0.75			
重量	910 g			440 g				520 g			540 g			

CLL-V Series

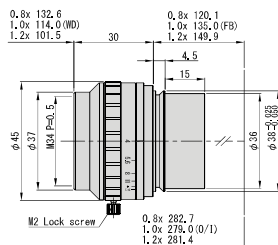
WD·倍率对照表

	0.165x	0.225x	0.28x	0.375x	0.45x	0.5x	0.55x	0.6x	0.625x	0.7x	0.75x	0.8x	0.875x	0.9x	1.0x	1.1x	1.125x	1.2x	2x	2.5x	3.3x	5x	
CLL-6035-V	349.2mm (0.165X)																						
CLL-7540-V												132.6mm (0.8X)						101.5mm (1.2X)					
CLL-8540-V			345.2mm (0.28X)																				
CLL-8540-06V								187mm (0.6X)															
CLL-12056-03V		633.4mm (0.225X)	414.8mm (0.375X)																				
CLL-12056-05V				417.2mm (0.375X)					285.9mm (0.625X)														
CLL-12056-075V									284.9mm (0.625X)				228.1mm (0.875X)										
CLL-12056-1V													228.2mm (0.875X)						196.6mm (1.125X)				
CLL-12035-05V					360mm (0.45X)	311.5mm (0.55X)																	
CLL-12035-075V										260.3mm (0.7X)	238.9mm (0.8X)												
CLL-12035-1V														229mm (0.9X)	204.8mm (1.1X)								
CLL-12040-2M67																			1,270mm (2.0X)				
CLL-12040-2.5M67																				115.5mm (2.5X)			
CLL-12028-3.3M67																					82.7mm (3.3X)		
CLL-12025-5M67																						78.7mm (5.0X)	

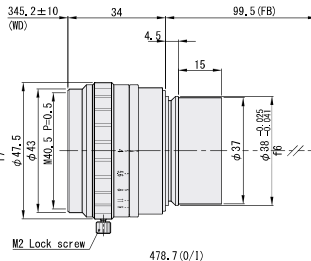
CLL-6035-V



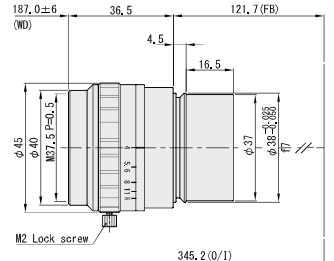
CLL-7540-V



CLL-8540-V

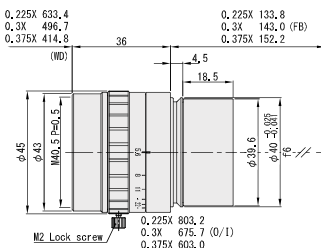


CLL-8540-06V

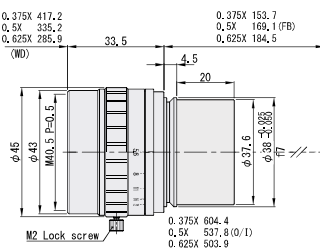


规格	CLL-6035-V	CLL-7540-V			CLL-8540-V	CLL-8540-06V
焦点距离	60 mm	75 mm			85 mm	85 mm
光学倍率	0.165x	0.8x	1.0x	1.2x	0.28x	0.6x
WD	349.2 mm ± 11	132.6 mm	114.0 mm	101.5 mm	345.2 mm ± 10	187.0 mm ± 6
物像间距离O/I	530.2 mm	282.7 mm	279.0 mm	281.4 mm	478.7 mm	345.2 mm
FNO	F 3.5 ~ 22	F 4 ~ 22			F 4 ~ 16	F 4 ~ 16
实效F *光圈全开	4.1	7.7	8.7	9.6	5.1	6.4
NA	0.020	0.052	0.057	0.063	0.027	0.047
景深 允许值乱值0.04mm	12.0 mm	1.0 mm	0.7 mm	0.5 mm	5.2 mm	1.4 mm
光学失真	-0.08 %	-0.01 %			0.00 %	-0.04 %
像圈	φ62 mm	φ82 mm			φ62 mm	φ62 mm
滤镜口径	M 67 P = 0.75	M 34 P = 0.5			M 40.5 P = 0.5	M 37.5 P = 0.5
重量	360 g	134 g			160 g	170 g

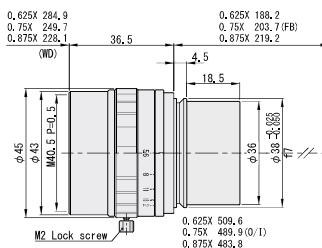
CLL-12056-03V



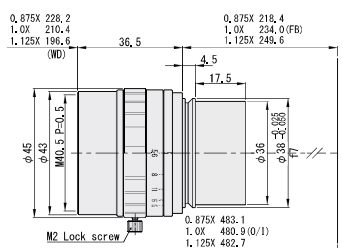
CLL-12056-05V



CLL-12056-075V

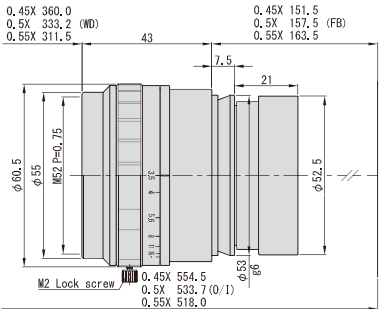


CLL-12056-1V

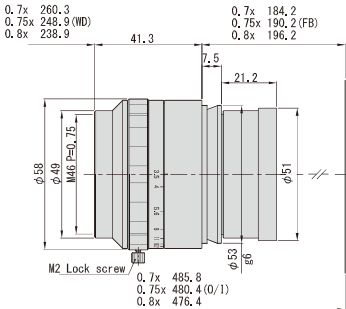


规格	CLL-12056-03V			CLL-12056-05V			CLL-12056-075V			CLL-12056-1V		
焦距距离	120 mm			120 mm			120 mm			120 mm		
光学倍率	0.225x	0.3x	0.375x	0.375x	0.5x	0.625x	0.625x	0.75x	0.875x	0.875x	1.0x	1.125x
WD	633.4 mm	496.7 mm	414.8 mm	417.2 mm	335.2 mm	285.9 mm	284.9 mm	249.7 mm	228.1 mm	228.2 mm	210.4 mm	196.6 mm
像间距O/I	803.2 mm	675.7 mm	603.0 mm	604.4 mm	537.8 mm	503.9 mm	509.6 mm	489.9 mm	483.8 mm	483.1 mm	480.9 mm	482.7 mm
FNO	F 5.6 ~ 32			F 5.6 ~ 32			F 5.6 ~ 32			F 5.6 ~ 32		
实效F 光圈全开	6.9	7.3	7.7	7.7	8.4	9.1	9.0	9.6	10.3	10.3	11.0	11.7
NA	0.016	0.021	0.024	0.024	0.030	0.034	0.035	0.039	0.042	0.042	0.045	0.048
景深 允许模糊圈0.04mm	10.9 mm	6.5 mm	4.4 mm	4.4 mm	2.7 mm	1.9 mm	1.8 mm	1.4 mm	1.1 mm	1.1 mm	0.9 mm	0.7 mm
光学失真(Y=45)	-0.02 %			0.01 %			-0.02 %			0.00 %		
周边亮度(Y=45)	57%			60%			63%			69%		
像圈	φ90 mm			φ90 mm			φ90 mm			φ90 mm		
滤镜口径	M 40.5 P = 0.5			M 40.5 P = 0.5			M 40.5 P = 0.5			M 40.5 P = 0.5		
重量	170 g			160 g			165 g			165 g		

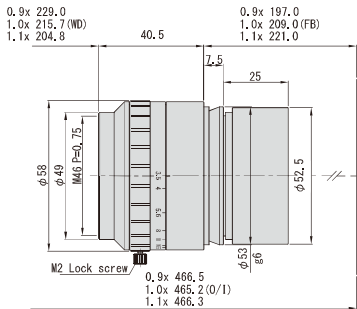
CLL-12035-05V



CLL-12035-075V

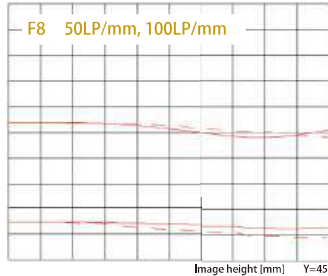
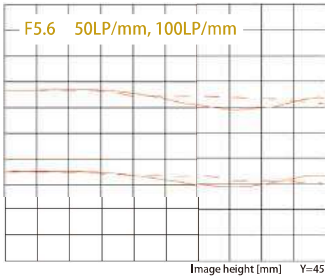
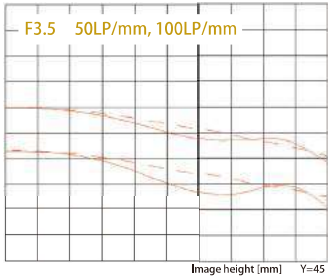


CLL-12035-1V

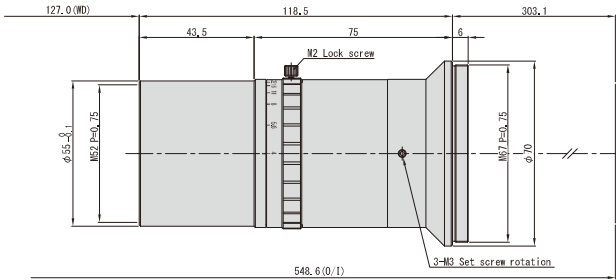


规格	CLL-12035-05V			CLL-12035-075V			CLL-12035-1V		
焦距距离	120 mm			120 mm			120 mm		
光学倍率	0.45x	0.5x	0.55x	0.7x	0.75x	0.8x	0.9x	1.0x	1.1x
WD	360.0 mm	333.2 mm	311.5 mm	260.3 mm	248.9 mm	238.9 mm	229.0 mm	215.7 mm	204.8 mm
物像间距离O/I	554.5 mm	533.7 mm	518.0 mm	485.8 mm	480.4 mm	476.4 mm	466.5 mm	465.2 mm	466.3 mm
FNO	F 3.5 ~ 32			F 3.5 ~ 22			F 3.5 ~ 22		
实效F *光圈全开	5.1	5.3	5.4	6.0	6.1	6.3	6.7	7.0	7.4
NA	0.044	0.047	0.051	0.058	0.061	0.063	0.067	0.071	0.074
景深 允许误差值 $\phi 0.04$ mm	2.0 mm	1.7 mm	1.4 mm	1.0 mm	0.9 mm	0.8 mm	0.7 mm	0.6 mm	0.5 mm
光学失真(Y=45)	0.05 %			0.01 %			0.05 %		
周边亮度(Y=45)	83 %			84 %			84 %		
像圈	$\phi 90$ mm			$\phi 90$ mm			$\phi 90$ mm		
滤镜口径	M 52 P = 0.75			M 46 P = 0.75			M 46 P = 0.75		
重量	390 g			350 g			350 g		

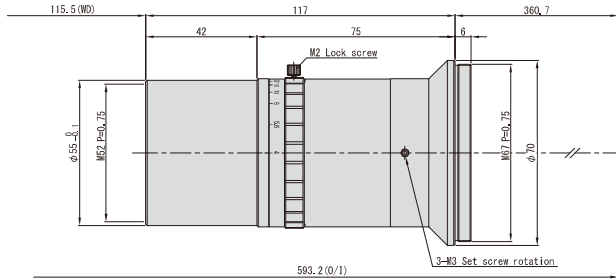
CLL-12035 MTF



CLL-12040-2M67

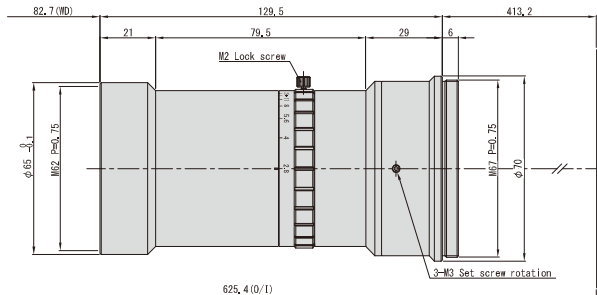


CLL-12040-2.5M67



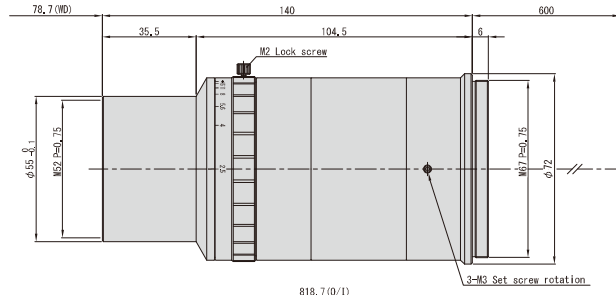
CLL-12028-3.3M67

以供定制



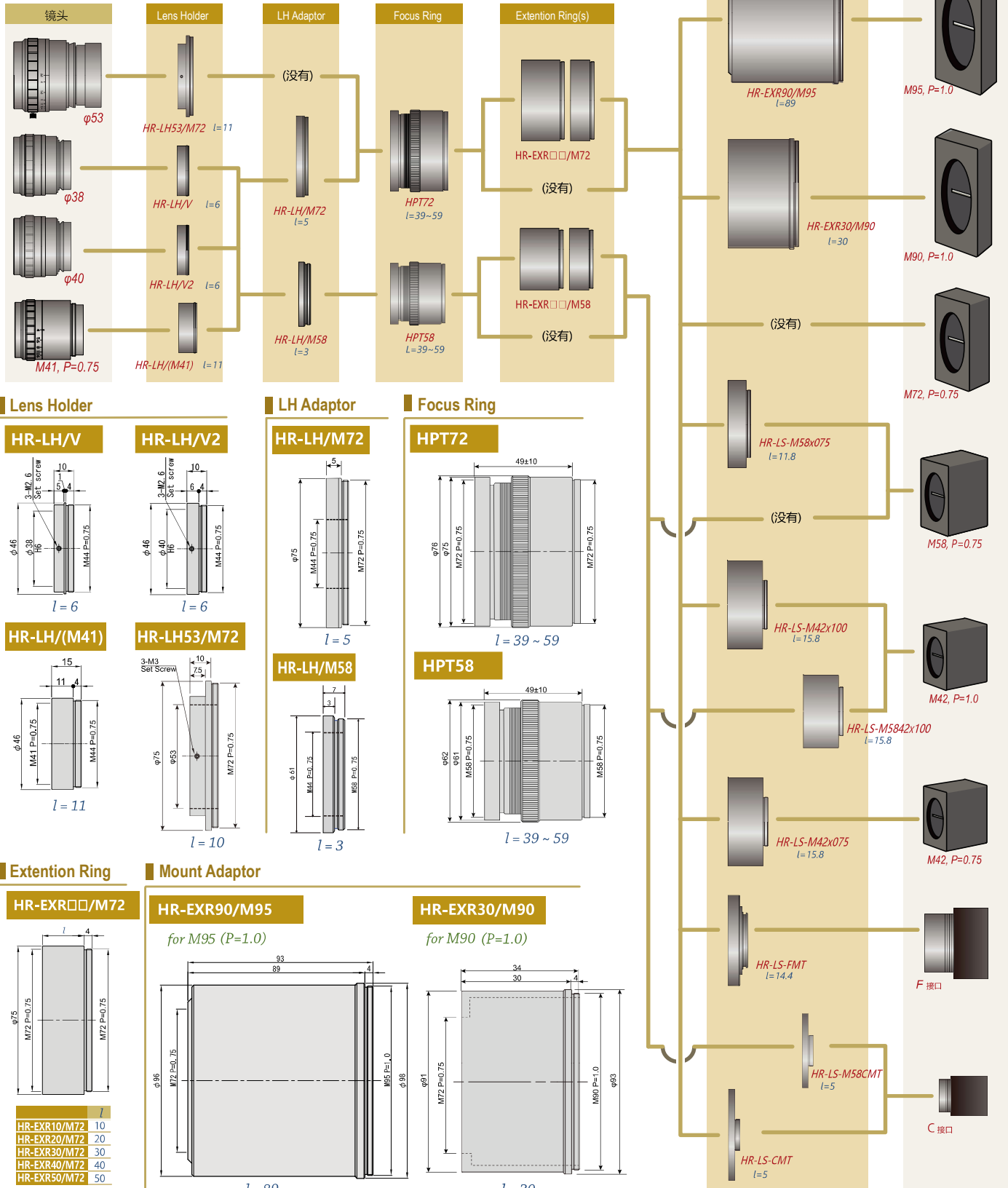
CLL-12025-5M67

以供定制

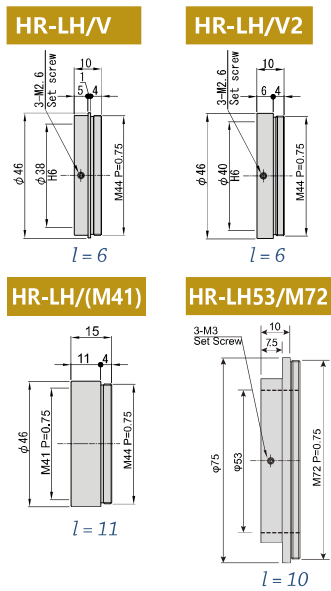


规格	CLL-12040-2M67	CLL-12040-2.5M67	CLL-12028-3.3M67	CLL-12025-5M67
焦距距离	120 mm	120 mm	120 mm	116 mm
光学倍率	2.0x	2.5x	3.3x	5.0x
WD	1270 mm	115.5 mm	82.7 mm	78.7 mm
物像间距离O/I	548.6 mm	593.2 mm	625.4 mm	818.7 mm
FNO	F 4 ~ 22	F 4 ~ 22	F 2.8 ~ 22	F 2.5 ~ 22
实效F *光圈全开	12.1	13.7	12.6	15.0
NA	0.083	0.091	0.131	0.167
景深 允许误差值 $\phi 0.04$ mm	0.2 mm	0.2 mm	0.09 mm	0.05 mm
光学失真	0.07 % (Y=45)	0.04 % (Y=45)	0.04 % (Y=45)	0.03 % (Y=43.2)
周边亮度	97 % (Y=45)	98 % (Y=45)	99 % (Y=45)	100 % (Y=43.2)
像圈	$\phi 90$ mm	$\phi 90$ mm	$\phi 90$ mm	$\phi 86.4$ mm
滤镜口径	M 52 P = 0.75	M 52 P = 0.75	M 62 P = 0.75	M 52 P = 0.75
重量	680 g	670 g	950 g	960 g

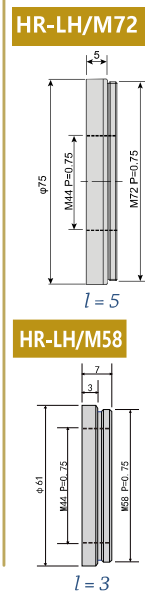
HR系列V接口镜头用转接环



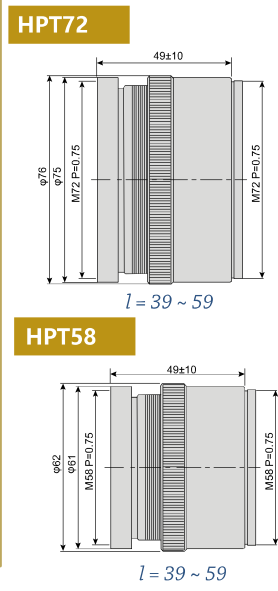
Lens Holder



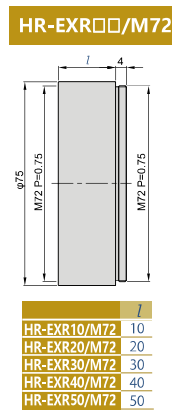
LH Adaptor



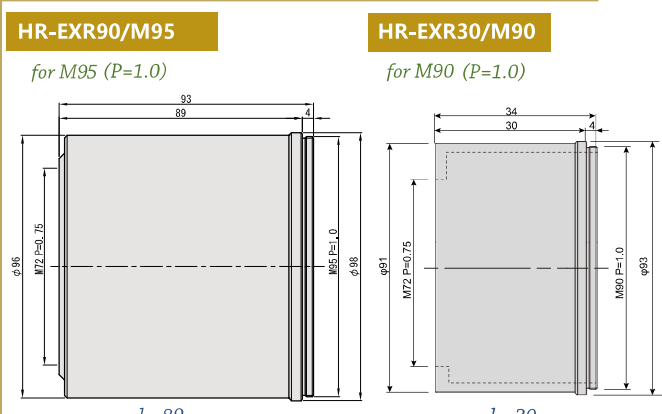
Focus Ring



Extention Ring



Mount Adaptor



HR-EXR□□/M58

